DLA Logistics R&D
Parts Management Project

DLA J-33
Presentation to the PSMC
21 April 2010

Agenda

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  - Team
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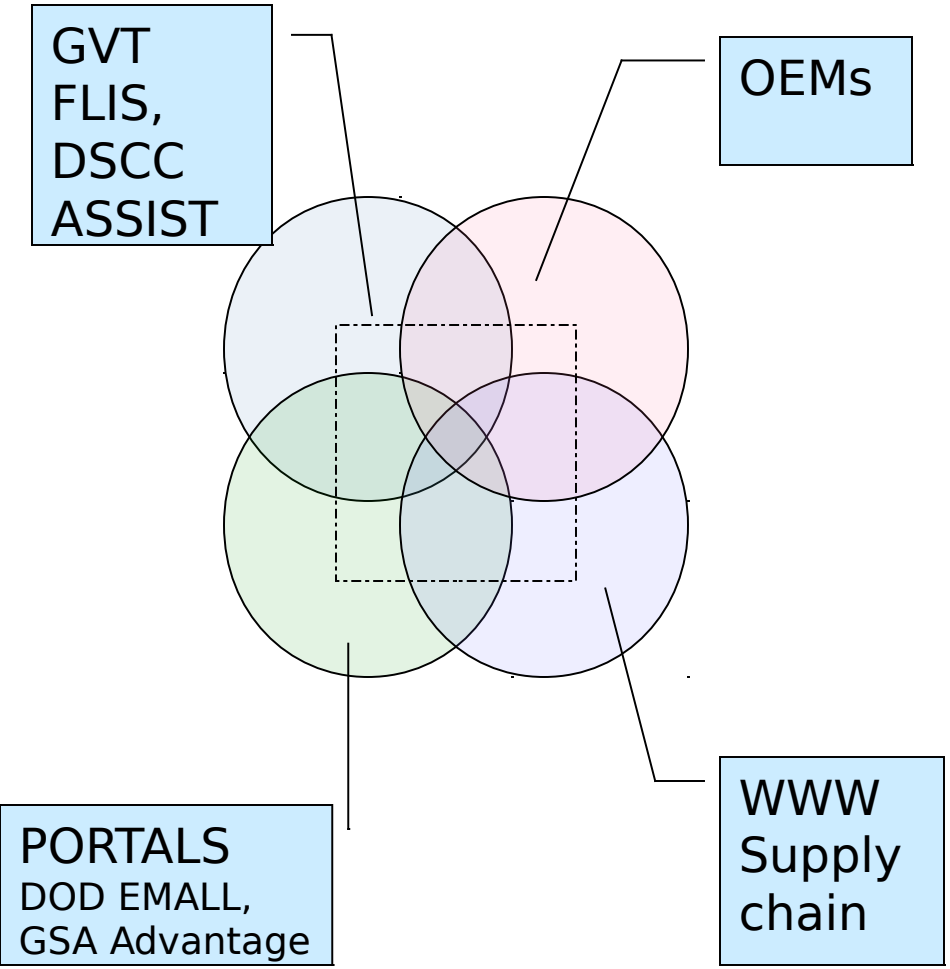
Parts Management Project Motivation



- Can we demonstrate a practical application of technologies recently developed for the DLA Log R&D program?
- Can we share information about common commodity parts and standardize more efficiently?
- Can we build a cross supply chain network that extends to the Services, DLA, and defense industry/weapon system integrators?

Tyco Electronics

Universal MATE-N-LOK Connector
Part Number 1-480698-0

EU RoHS/ELV Compliant

NORTHROP GRUMMAN

CAGE: 00779
Part No: 1-480698-0
CONNECTOR, PLUG, MATE N
LOCK, 2 POSITION

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM GIDEP

TYCO ELECTRONICS
PRODUCT CHANGE
NOTIFICATION E-07-02543

JAMECO ELECTRONICS

Connector Housing Receptacle 2
Position 6.35mm Straight Loose
Piece
Manufacturer AMP
Catalog no. 526731
Price: $0.25
Shipping: 3 days ARO

INFORMATION INTEGRATION
FROM THE SUPPLY WEB

Defense Supply Center Columbus

CONNECTOR, RECEPTICAl
ELECTRICAL,
PLUG HOUSING
Drawing No. 87097-001

45 DIFFERENT
WEAPON SYSTEMS
FROM MULTIPLE
SERVICES

DOD EMALL GSA Advantage!

Newark Electronics

Allied Electronics

John B Ruby

Defense Logistics Information Service

CONNECTOR BODY,PLUG,ELECTRICAL
NSN 5935010961872

TEAM EFFORT

TQ	•Christine Metz - Project Sponsor
WSSP	•Cliff Wolfe – Project Sponsor
DLIS	•Larry Mullins, Mike Rose •NSN Data Sharing and Validation •FIIG development
DSCC	•Gary Watson •Data Sharing and Validation •Attribute Development
LMI	•Bruce Kaplan •Prime Contractor, Project Management •Business Case Analysis
XSB	•Rupert Hopkins, Robert Pokorny •Data mining analysis and standardization •Data Escrow Developer
NGC	• Edward Zelinski •OEM Data Sharing and Validation • Attribute development

Approach

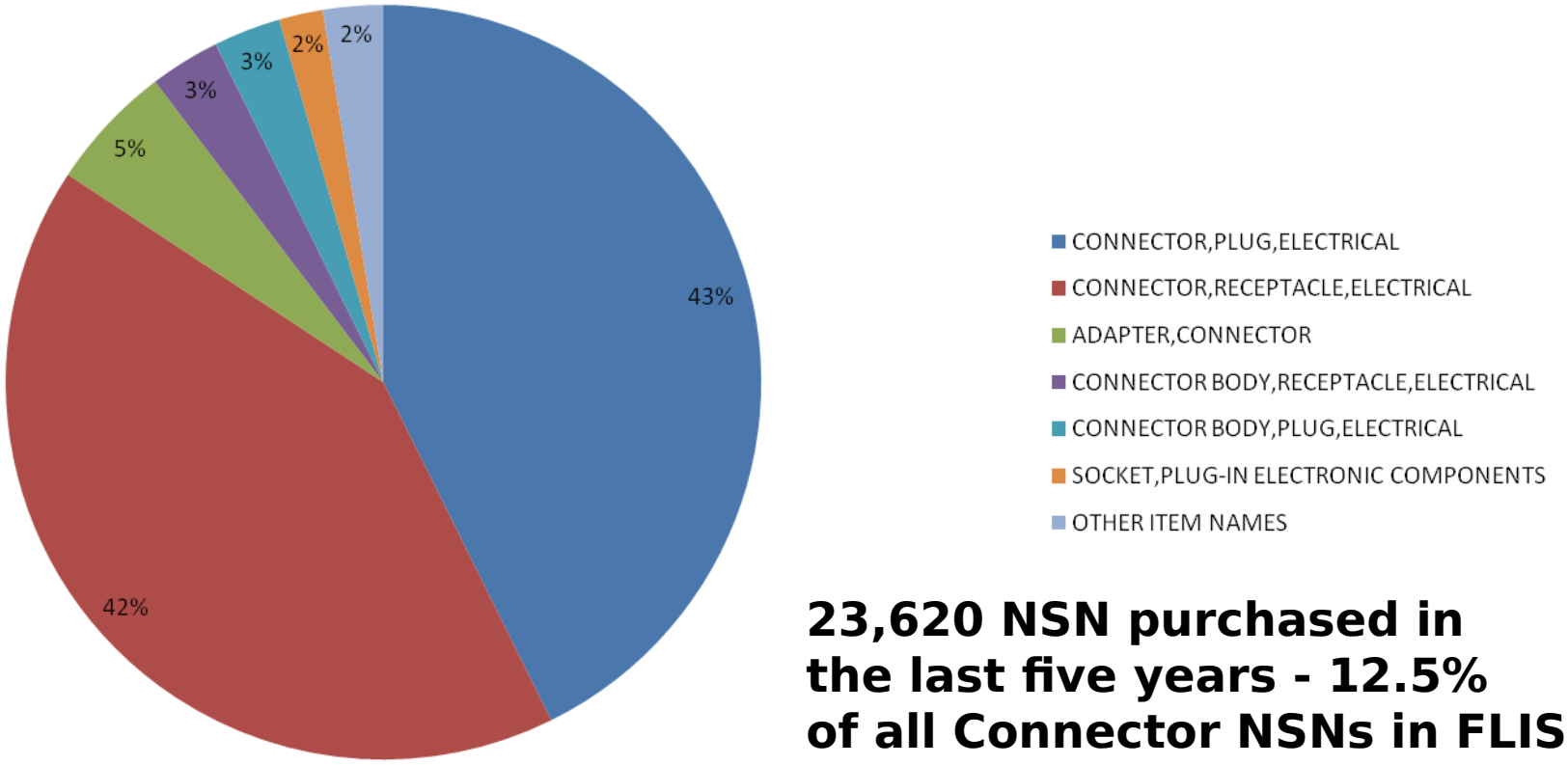
- Identify a commodity – initially connectors and will select another commodity in the next phase
- Characterize that commodity by analyzing recently procured items
- Identify major suppliers, specifications and standards
- Use Focused Crawlers and ontology based technologies to acquire, extract and standardize attributes from OEMs, Government, Suppliers, DSCC Drawings, Specs and standards, etc.
- Develop a common parts database with information sharing rules and restrictions. Measure the ability to reduce duplicate NSNs, inventory, etc
- Develop a Business Case by quantifying opportunities for cost savings through reduction of identical and similar items

What we've seen so far . . .

Connectors Defined in FLIS Item Names

INC	Item Name	FIIG	FIIG Title
15091	ADAPTER,CONNECTOR ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
38437	CONNECTOR BODY,MODULAR PLUG,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
38438	CONNECTOR BODY,MODULAR RECEPTACLE, ELECTRICAL ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
61924	CONNECTOR BODY,PLUG,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
61925	CONNECTOR BODY,RECEPTACLE,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
68174	CONNECTOR,BULKHEAD,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
38439	CONNECTOR,MODULAR PLUG,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
38440	CONNECTOR,MODULAR RECEPTACLE,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
01938	CONNECTOR,PLUG,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
15093	CONNECTOR,RECEPTACLE,ELECTRICAL	A039B0	CONNECTOR, ELECTRICAL
38441	INSERT MODULE,ELECTRICAL CONNECTOR	A039B0	CONNECTOR, ELECTRICAL
60653	INSERT,ELECTRICAL CONNECTOR	A039B0	CONNECTOR, ELECTRICAL

NSN by Item Name Purchased in last 5 Years



23,620 NSN purchased in the last five years - 12.5% of all Connector NSNs in FLIS

Suppliers associated to NSN Connectors

28 Suppliers are listed as sources for 1000 or more NSN Connectors

Over 6500 Suppliers are listed as sources for at least one NSN connector

Many of the top suppliers are Prime Contractors and not the actual connector manufacturer

Top 28 Suppliers

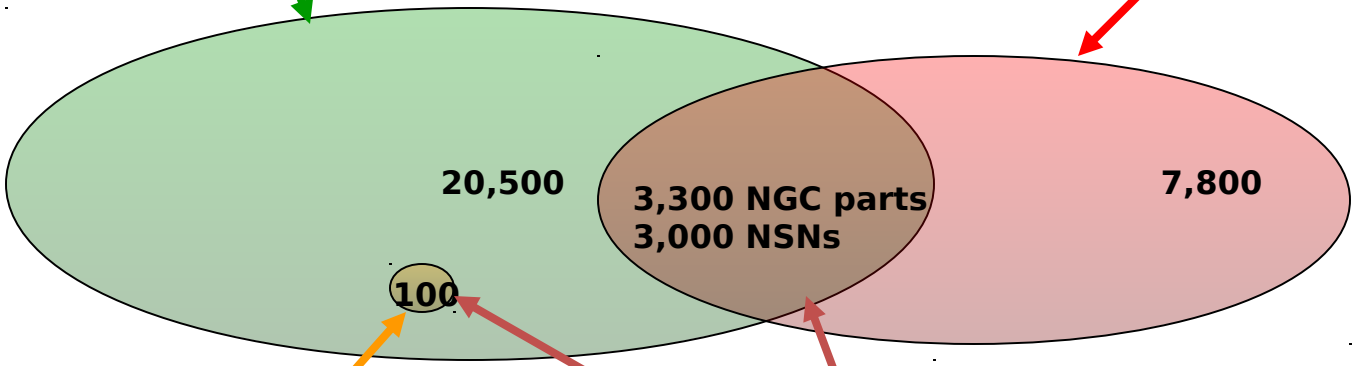
Count of NSNs	Supplier	Count of NSNs	Supplier
22,424	AMPHENOL*	2,671	CONTINENTAL CONNECTOR
14,265	ITT*	2,520	L-3 COMMUNICATIONS
11,158	TYCO ELECTRONICS*	2,316	CINCH MANUFACTURING*
9,546	NORTHROP GRUMMAN DEFENSE MISSION SYSTEMS	1,916	HEWLETT-PACKARD
		1,820	GENERAL-ELECTRIC
9,298	RAYTHEON	1,638	AUTOMATIC CONNECTOR
7,210	LOCKHEED MARTIN	1,557	ITT-CANNON RF PRODUCTS
6072	WINCHESTER ELECTRONICS*	1,552	KYOCERA
4,200	BOEING	1,429	AGILENT TECHNOLOGIES
4,160	BAE SYSTEMS	1,400	ROCKWELL-COLLINS
3,179	AIRBORN INTERCONNECT*	1,371	MOLEX*
2,976	DEUTSCH ENGINEERED CONNECTING DEVICES*	1,363	FCI*
2,933	HONEYWELL INTERNATIONAL	1,110	US COMPONENTS
2,813	ROCKWELL-COLLINS DIV GOVERNMENT SYSTEMS	1,040	DELPHI CONNECTION SYSTEMS
2,729	SOURIAU*		

*** These suppliers are also major suppliers for NGC Connectors**

Recently Purchased Common Parts Population

NSN Connectors purchased in Last 5 years ~23,600

NGC Connectors purchase In last 3 years ~11,100



NSNs with NGC eference Numbers but not In NGC Connectors ~100

3000 Recently Purchased Common Connectors Between FLIS and NGC

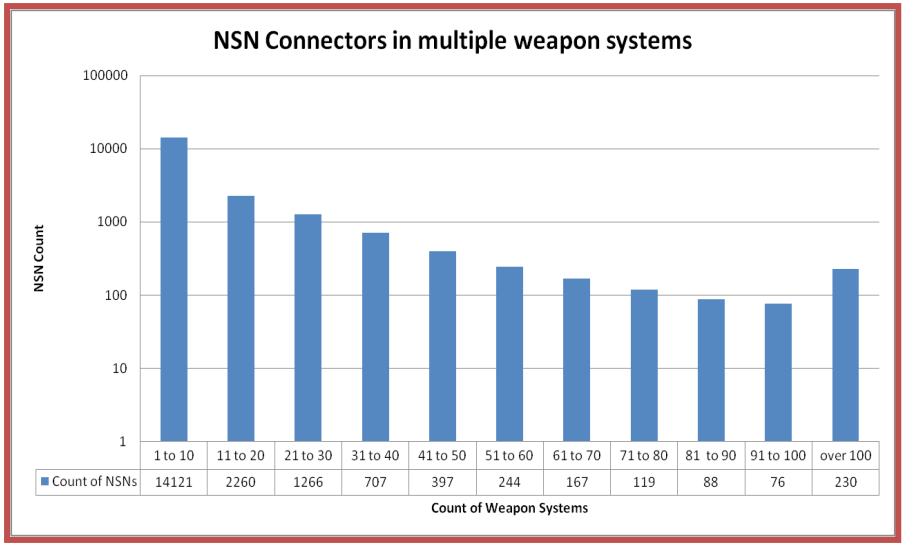
Common Parts Weapon System Distribution

- 31,000 Connector NSNs are common with NGC connectors
- 11,000 of these NSNs have no weapon system association in FLIS*
- The balance of these NSNs have one or more weapon system associations

Counts of NSN connectors for top 10 weapon systems

NSN Count	Weapon System
3,892	NIMITZ CLASS CVN
3,302	ARLEIGH BURKE CLASS DDG
3,296	AIRCRAFT, HORNET F/A-18
3,278	AIRCRAFT, HORNET F/A-18 (E/F)
3,272	AIRCRAFT, FA-18, A - D, E/F, G (GROWLER)
3,264	EA-18G (GROWLER)
3,236	AIRCRAFT, TOMCAT F-14
3,188	TICONDEROGA CLASS CG (47)
3,090	WASP CLASS LHD
2,883	HELICOPTER, SEAHAWK, H-60

Counts of NSN connectors found on multiple weapon systems



* It is anticipated that these items will have one or more weapon system identified in the NGC data

Next Steps

- Identify a second OEM & Commodity
- Develop common parts database and provide role based access to connector data with a design that will be easily expandable to additional part domains
- Field Commodity data by 1 June 2010
- Establish business case

Business Case Development

LMI will develop a BCA based on the benefit of information sharing for part selection, cataloging, inventory, procurement, and other processes.

- The BCA will address projected benefits for DLA and OEMs to mitigate NSN proliferation through the sharing of technical characteristics and source data for common commodity parts,
- Implications of the data sharing for improving the Federal Catalog,
- The opportunity to improve part selection practices through the implementation of a MIL-STD-3018 process.

Potential Benefits

For the OEM:

- Identification of duplicate parts to be combined.
- Identification of technically similar parts for parts management action (potential consolidation
- Identification of preferred parts for future design..

For DLA ICPs:

- Identification of additional sources for parts, particularly for sole source parts
- Approval of those sources
- Identification of potential duplicate items.

For DLIS:

- Addition of item characteristic data to the catalog
- Potential to consolidate/cancel NSNs.
- Addition of additional sources to the FLIS.
- Update of FIIGs.